

**No English title available.**

Patent Number: DE19637917  
Publication date: 1998-03-19  
Inventor(s): GRAMCKOW OTTO DR ING (DE); PEUKER THOMAS DR ING (DE); SCHMID FRIEDEMANN DR RER NAT (DE); SOERGEL GUENTER DIPL ING (DE)  
Applicant(s): SIEMENS AG (DE)  
Requested Patent: ☐ DE19637917  
Application Number: DE19961037917 19960917  
Priority Number (s): DE19961037917 19960917  
IPC Classification: G05B13/04; B21B37/00; G06F17/50  
EC Classification: G05B13/02C4, B21B37/00  
Equivalents: ☐ WO9812612

---

**Abstract**

---

The invention concerns a method of designing or controlling a basic industry plant process operation, in particular for a steelworks or rolling mill, decision variables concerning the process operation being optimized by means of a mathematical optimization algorithm which optimizes the decision variables concerning the process operation on the basis of a process model. The process model is distributed over two model planes, a higher-level model plane (1) and a lower model plane (2). The lower model plane (2) comprises partial models (3, 4, 5, 6) which are linked by at least one model (7) on the higher-level model plane.

---

Data supplied from the esp@cenet database - l2